

is obtained. Curve 400 represents the current from photodiode A and curve 500 represents the current from photodiode B. As can be seen from curve 600, the manipulation of the separate photodiode signals, in this case $I_{OUT} = n \cdot (I_B - (I_A - I_B))$ results in signal 600 centered at approximately 555 nanometers wavelength.

In the Claims:

Claim 1 Amendment

Please amend Claim 1 as follows:

1. (Once Amended) Apparatus for generating an electronic signal in response to selected wavelengths of light comprising:

- a first photodiode for converting at least the selected wavelengths of light to a corresponding first electronic signal;
- a second photodiode for converting said wavelengths of light to a corresponding second electronic signal; and
- a circuit for manipulating the first and second electronic signals to generate an output signal in response to the selected wavelengths of light.

Claim 9 Amendment

Please amend Claim 9 as follows:

9. (Once Amended) Apparatus for generating an electronic signal in response to selected wavelengths of light comprising:

- a first sensor for converting at least the selected wavelengths of light to a corresponding first electronic signal;
- a second sensor for converting said wavelengths of light to a corresponding second electronic signal;

Contd
A7
wherein the first and second sensors are provided with a spectral sensitivity differential; and

a circuit for manipulating the first and second electronic signals to generate an output signal in response to the selected wavelengths of light.

[Claim 16 Amendment]

[Please amend Claim 16 as follows:]

Ad
16. (Once Amended) A method of generating an electronic signal corresponding to selected wavelengths of light, the method comprising the steps of:

converting wavelength ranges of light into first and second electronic signals wherein at least one of the wavelength ranges includes the selected wavelengths; and

manipulating the first and second electronic signals to generate an output signal corresponding to the selected wavelengths of light.

[Claim 17 Amendment]

[Please amend Claim 17 as follows:]

17. (Once amended) The method according to claim 16, wherein the converting step further comprises the steps of:

converting said wavelength ranges of light, including at least the selected wavelengths of light, to a corresponding first electronic signal; and

converting said wavelength ranges of light, including at least wavelengths distinct from the selected wavelengths of light, to a corresponding second electronic signal.